

LVR initial QA checklist

- Put on **wrist strap**, take new LVR from box, **visually inspect** it and **set all switches** to the values below.

	CCMs	FPGA side				CCMs		FPGA
	SW1	SW3	SW2	SW5		SW6[ABCD]		SW4
All	0001	1111	1111	1000	1.2V	1010	A	0000
					1.5V	1100	MS	1111
					2.5V	1000	MSA	1100

- Place the **LVR in the holder** and **plug the input BB**.
- Place **serial number sticker** and **choose type in database**.
- Verify that the **chassis and power ground are isolated** by $> 25k \Omega$.
- Connect jumpers** between **J22** pins 2/4 and 1/3.
- Connect the **raspberry Pi LVR monitor**.
- Turn on PS** set to **1.6V** and max **2A**.
- Adjust the P1, P2, and P5** pots so that the 1.5V, 3.3V, and 5.5V rails are set to those values.
- Adjust the P3 and P4** pots so that voltages for TP9-TP10 and TP14-TP15 are 1.483V (1.2V LVR), 1.546V (1.5V LVR), or 1.775V (2.5V LVR).
- Program the FPGA**
- Turn off power, install CCMs
- Turn on power, check **UVL turns all channels OFF with input voltage 4.3V (12A), 4.8V (15MS), 5.3V (25A)**
 - Set input voltage back to 6V when you've checked
- Change **SW1** to 0011 (or 1111), check over-temperature turns **channels off, LD7 LED turns on**
- Check sense lines with RJ45 breakout board
- Check you can read WORD2 (fw version) with SPI, and that after grounding the green floating wire (RESET), SPI always responds 00000000
- Disconnect everything, and place colored stickers for each CCM.
- Update the database**, and you are done!

